



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY  
AFFAIRS (PERA)  
BOARD AND CODE ADMINISTRATION DIVISION  
**NOTICE OF ACCEPTANCE (NOA)**

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
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**The Garland Company, Inc.**  
**3800 East 91<sup>st</sup> Street**  
**Cleveland, OH 44105-2197**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA – Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: Garland Built-Up Roofing Systems Over Steel Decks.**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews and revises NOA No. 06-1018.08 and consists of pages 1 through 12.  
The submitted documentation was reviewed by Jorge L. Acebo.



**NOA No.: 11-0628.02**  
**Expiration Date: 12/03/16**  
**Approval Date: 01/12/12**  
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## ROOFING SYSTEM NOTICE OF ACCEPTANCE

Category: Roofing  
Sub-Category: Built-Up Roofing  
Material: Fiberglass/Asphalt  
Deck Type: Steel  
Maximum Design Pressure -82.5 psf

### TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
HPR Glasbase	36" x 108' 75 lbs.	ASTM D 4601, Type II	Type II, asphalt coated fiberglass base sheet.
HPR Premium Glasbase	36" x 72' 75 lbs.	ASTM D 4601, Type II	Type II, asphalt coated fiberglass base sheet.
HPR Glasfelt	36" x 180'; roll weight: 95 lbs.	ASTM D 2178	Type IV asphalt impregnated glass felt for use in conventional and modified built-up roof systems.
HPR Premium Glasfelt	36" x 180'; roll weight: 95 lbs.	ASTM D 2178	Type VI asphalt impregnated glass felt for use in conventional and modified bitumen built-up roofing.
Garland Flashing Bond	5 gallon	ASTM D 4586	Trowel grade, asphalt based roofing mastic for use in repair and patching against leaks in built-up asphalt roofs.
Garla-Flex V.O.C.	2, 5 gallon pail	ASTM D 4586	Elastomeric, asphaltic compound formulated from a special weather and ozone-resistant thermoplastic rubber, plasticizing oils and bitumen. Asbestos free.
Garla-Shield	5, 55 gallon	ASTM D 1227, type IV	Asphalt emulsion roof coating.
Garla-Brite	5 gallon	ASTM D 2824, type I	Aluminum roof coating.
GarlaPrime VOC	5, 55 gallon	ASTM D 41	Non-fibered, quick drying asphalt roof primer
Silver-Shield	5, 55 gallon	ASTM D 2824, type III	High solids, aluminized roof coating.
Black Knight or Black Knight LV Flood Coat	70 lb. keg	Proprietary	Polymer modified coal tar pitch.



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**APPROVED INSULATIONS:****TABLE 2**

<b>Product Name</b>	<b>Product Description</b>	<b>Manufacturer (With Current NOA)</b>
ACFoam II	Polyisocyanurate foam insulation	Atlas Energy Products
ENRGY-3, ENRGY 3 Plus	Polyisocyanurate foam insulation	Johns Manville
Fesco Board	Expanded perlite, insulation	Johns Manville
ISO 95+GL	Polyisocyanurate foam insulation	Firestone
Multi-Max 3	Polyisocyanurate foam insulation	RMax
DensDeck	Water resistant gypsum board	G-P Gypsum Corp.
Structodek High Density Fiberboard Roof Insulation	High Density wood fiber insulation board	Blue Ridge Fiberboard
FiberGlass Roof Insulation	Glass fiber/Mineral fiber insulation	Generic
High Density Fiberboard	Wood fiber insulation board	Generic

**APPROVED FASTENERS:****TABLE 3**

<b>Fastener Number</b>	<b>Product Name</b>	<b>Product Description</b>	<b>Dimensions</b>	<b>Manufacturer (With Current NOA)</b>
1.	Dekfast Fasteners #12, #14 & #15	Insulation fastener for wood, steel and concrete decks	Various	SFS Intec, Inc.
2.	Dekfast Galvalume Steel Hex Plate	Galvalume hex stress plate.	2 7/8" x 3 1/4"	SFS Intec, Inc.
3.	Dekfast Dekflat Round Plastic Lock Plate	Polypropylene locking plate.	3" x 3 1/4"	SFS Intec, Inc.
4.	#12 Roofgrip Fasteners	Insulation fastener for wood and steel.	Various	OMG, Inc.
5.	ASAP Hex Head RoofGrip Pre-Assembled System	Pre-assembled Insulation fastener and plate		OMG, Inc.
6.	3 in. Round Metal Plate	Galvalume stress plate.	3" round	OMG, Inc.
7.	AccuTrac Plate	Galvalume stress plate.	3" square	OMG, Inc.
8.	UltraFast	Insulation fastener for wood and steel.	Various	Johns Manville
9.	UltraFast Plastic Plate	Polypropylene copolymer round plate	3" round	Johns Manville
10.	Olympic Fastener #12	Insulation fastener	Various	OMG, Inc.
11.	Tru-Fast Fasteners	Insulation fastener for steel and wood decks	Various	The Tru-Fast Corp.



## APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
12.	Tru-Fast 3" Metal Insulation Plates	3" round galvalume AZ50 steel plate	3" round	The Tru-Fast Corp.
13.	AccuTrac Hextra	Hex washer head, CR-10 coated, carbon steel fastener	Various	OMG, Inc.
14.	AccuTrac Flat Bottom Plate	A2-SS aluminized steel plate	3" square	OMG, Inc.
15.	OMG Heavy Duty	High thread fastener for steel, concrete and wood decks	Various	OMG, Inc.

## EVIDENCE SUBMITTED

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Dynatech Engineering Corporation	#4530.05.95-1	TAS 114	5/31/95
Factory Mutual Research Corporation	IVOA7.AM	FM 4470	02/21/95
	1B4A7.AM		12/15/97
	4B4A9.AM		12/31/97
	0Y5A6.AM		09/08/97
	3D3A5.AM		09/15/98
	3004392		09/21/99
	0D9A0.AM		05/02/00
	3004907		05/16/00
	3009117		12/21/00
PRI Asphalt Technologies, Inc.	GRD-03-02-01	Physical Properties	01/07/98
	GRD-05-02-01	ASTM D 5147	12/18/97
	GRD-06-02-01		01/09/98
PRI Construction Materials Technologies	GRD-052-02-01	ASTM D 2178	10/31/11
	GRD-051-02-01	ASTM D 2178	10/31/11
Trinity   ERD	G32700.09.11-1	ASTM D4601	09/16/11
	G37200.10.11-2	ASTM D 5726	10/18/11
	#4533.05.98-1-R1	TAS 114(J)	09/09/11

## APPROVED ASSEMBLIES:

**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga. steel

**System Type B(1):** Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt or adhesive.

### All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 2)	Fastener Density/ft <sup>2</sup>
<b>ACFoam II</b> Minimum 1.3" thick	1, 4, 10, & 11	1:2.67 ft <sup>2</sup>
<b>ENRGY 3</b> Minimum 1.4" thick	1, 4, 5, 10 & 11	1:3 ft <sup>2</sup>
<b>ENRGY 3 Plus</b> Minimum 1.5" thick	1, 4, 5 & 11	1:3 ft <sup>2</sup>
<b>ISO 95+ GL</b> Minimum 1.4" thick	1, 4, 5, 8 & 10,	1:4 ft <sup>2</sup>
<b>Fesco Board</b> Minimum ¾" thick	1, 10 & 11	1:2 ft <sup>2</sup>
<b>Approved FiberGlass Roof Insulation</b> Minimum 1 <sup>5</sup> / <sub>16</sub> " thick	1, 4, 5, 8, 10 & 11	1:4 ft <sup>2</sup>
<b>Approved High Density Fiberboard, Structodek High Density Fiberboard Roof Insulation</b> Minimum ¾" thick	1, 4, 5, 10 & 11	1:4 ft <sup>2</sup>

**Note:** Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

Top Insulation Layer	Insulation Fasteners (Table 2)	Fastener Density/ft <sup>2</sup>
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Any of the insulations with applicable thickness listed for Base Layer, above.

**Note:** Apply optional top layer of insulation shall be adhered with approved hot asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs/100 ft<sup>2</sup> or in Insta-Stik Roofing Adhesive applied in continuous ¾ to 1 inch wide beads spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side face down.



- Base Sheet: (Optional) HPR Glasbase or HPR Premium Glasbase adhered directly over the top layer of insulation with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq.
- Ply Sheet: Two or more plies of HPR Glasbase, HPR Premium Glasbase, HPR Glasfelt, HPR Premium Glasfelt or approved ASTM D 2178 type IV or VI ply sheet adhered with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq.
- Surfacing: (Required) Install one of the following:
1. 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping asphalt at an application rate of 60 lb./sq. or in Black Knight Flood Coat or Black Knight LV Flood Coat at 70 lb/sq.
  2. GarlaBrite applied at 1 gal. per 150 ft<sup>2</sup>.
- Maximum Design Pressure: -45 psf. (See General Limitation #9.)



**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga., type B, Grade C steel deck over steel supports spaced max. 5 ft. o.c.

**System Type B(2):** Base layer of insulation mechanically fastened, top layer adhered with approved asphalt.

**Deck:** 18-22 ga Grade C steel deck attached 6' o.c. (every flute) using ¾"puddle welds to steel supports spaced 5 ft. o.c.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 2)	Fastener Density/ft <sup>2</sup>
<b>ACFoam II</b> Minimum 1.5" thick	10	1:1.33 ft <sup>2</sup>

**Note:** Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

Middle Insulation Layer (Optional)	Insulation Fasteners (Table 2)	Fastener Density/ft <sup>2</sup>
<b>ACFoam II</b> Minimum 1.5" thick	N/A	N/A

Top Insulation Layer	Insulation Fasteners (Table 2)	Fastener Density/ft <sup>2</sup>
<b>Approved High Density Fiberboard</b> Minimum ½" thick	N/A	N/A
<b>DensDeck</b> Minimum ¼" thick	N/A	N/A

**Any of the insulations with applicable thickness listed for Base Layer, above.**

**Note:** Apply optional middle and/or top layer of insulation shall be adhered with approved hot asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs/100 ft<sup>2</sup> or in Insta-Stik Roofing Adhesive applied in continuous ¾ to 1 inch wide beads spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side face down.



- Base Sheet: (Optional) HPR Glasbase or HPR Premium Glasbase adhered directly over the top layer of insulation with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq.
- Ply Sheet: Two or more plies of HPR Glasbase, HPR Premium Glasbase, HPR Glasfelt, HPR Premium Glasfelt or approved ASTM D 2178 type IV or VI ply sheet adhered with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq.
- Surfacing: (Required) Install one of the following:
1. 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping asphalt at an application rate of 60 lb./sq. or in Black Knight Flood Coat or Black Knight LV Flood Coat at 70 lb/sq.
  2. GarlaBrite applied at 1 gal. per 150 ft<sup>2</sup>.
- Maximum Design Pressure: -82.5 psf. (See General Limitation #7.)





**Deck Type 2I:** Steel, Insulated  
**Deck Description:** 18-22 ga. steel  
**System Type C:** All layers of insulation simultaneously attached.  
**Deck:** 18-22 ga Grade C steel deck attached 6' o.c. (every flute) using 3/4"puddle welds to steel supports spaced 5 ft. o.c.

**All General and System Limitations apply.**

<b>Base Insulation Layer</b>	<b>Insulation Fasteners (Table 2)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>ACFoam II, ENRGY 3, ENRGY 3 Plus, Multi-Max-3</b> Minimum 1" thick	N/A	N/A
<b>Approved High Density Fiberboard, Structodek High Density Fiberboard Roof Insulation</b> Minimum 1/2" thick	N/A	N/A
<b>Fesco Board</b> Minimum 3/4" thick	N/A	N/A
<b>Approved FiberGlass Roof Insulation</b> Minimum 1 5/16" thick	N/A	N/A

**Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.**

<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 2)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>ACFoam II</b> Minimum 1.3" thick	1, 4, 10, & 11	1:2.67 ft <sup>2</sup>
<b>ENRGY 3</b> Minimum 1.4" thick	1, 4, 5, 10 & 11	1:3 ft <sup>2</sup>
<b>ENRGY 3 Plus</b> Minimum 1.5" thick	1, 4, 5 & 11	1:3 ft <sup>2</sup>
<b>ISO 95+ GL</b> Minimum 1.4" thick	1, 4, 5, 8 & 10	1:4 ft <sup>2</sup>
<b>Fesco Board</b> Minimum 3/4" thick	1, 10 & 11	1:2 ft <sup>2</sup>
<b>Approved FiberGlass Roof Insulation</b> Minimum 1 5/16" thick	1, 4, 5, 8, 10 & 11	1:4 ft <sup>2</sup>
<b>Approved High Density Fiberboard, Structodek High Density Fiberboard Roof Insulation</b> Minimum 3/4" thick	1, 4, 5, 10 & 11	1:4 ft <sup>2</sup>

**Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**



- Base Sheet: (Optional) HPR Glasbase or HPR Premium Glasbase adhered directly over the top layer of insulation with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq.
- Ply Sheet: Two or more plies of HPR Glasbase, HPR Premium Glasbase, HPR Glasfelt, HPR Premium Glasfelt or approved ASTM D 2178 type IV or VI ply sheet adhered with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq.
- Surfacing: (Required) Install one of the following:
1. 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping asphalt at an application rate of 60 lb./sq. or in Black Knight Flood Coat or Black Knight LV Flood Coat at 70 lb/sq.
  2. GarlaBrite applied at 1 gal. per 150 ft<sup>2</sup>.
- Maximum Design Pressure:
- 45 psf (for all other applications) (See General Limitation #9.)
  - 60 psf (for coverboard of 1" thick High Density Wood Fiberboard mechanically attached at 1 per 2 ft<sup>2</sup> over polyisocyanurate base layer with asphalt applied membranes.) (See General Limitation #7.)



**Deck Type 2I:** Steel, Insulated

**Deck Description:** 18-22 ga., type B, Grade C steel deck over steel supports spaced max. 5 ft. o.c.

**System Type D:** All layers of insulation and base sheet simultaneously attached.

**Deck:** 18-22 ga Grade C steel deck attached 6' o.c. (every flute) using 3/4"puddle welds to steel supports spaced 5 ft. o.c.

**All General and System Limitations apply.**

Insulation Layer	Insulation Fasteners (Table 2)	Fastener Density/ft <sup>2</sup>
<b>ACFoam II, ENRGY 3, ENRGY 3 Plus, Multi-Max-3</b>		
Minimum 1" thick	N/A	N/A
<b>Approved High Density Fiberboard, Structodek High Density Fiberboard Roof Insulation</b>		
Minimum 1/2" thick	N/A	N/A
<b>Fesco Board</b>		
Minimum 3/4" thick	N/A	N/A
<b>Approved FiberGlass Roof Insulation</b>		
Minimum 1 5/16" thick	N/A	N/A

**Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.**

**Base Sheet:** **(Option #1)** One ply of HPR GlasBase or approved ASTM D 4897, Type II base sheets fastened to the deck using OMG Accutrak Fasteners and Plates spaced 12" o.c. in a 4" lap and 12" o.c. in two staggered rows in the center of the sheet.

**(Option #2)** One ply of HPR GlasBase or approved ASTM D 4897, Type II base sheets fastened to the deck using SFS Dekfast #12 fasteners with plates, OMG #12 or OMG Heavy Duty fasteners with OMG 3 in. Round Metal Plates, or OMG Accutrak Fasteners and Plates spaced 9" o.c. in a 4" lap and 9" o.c. in two staggered rows in the center of the sheet.

**Intermediate Coverboard:** (Optional) 1/2" thick High Density Wood Fiberboard adhered with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq.

**Ply Sheet:** Two or more plies of HPR Glasbase, HPR Premium Glasbase, HPR Glasfelt, HPR Premium Glasfelt or approved ASTM D 2178 type IV or VI ply sheet adhered with a full mopping of approved asphalt, HPR All Temp, Garlastic KM, or Garlastic KM Plus within the EVT range and at a rate of 20-40 lbs./sq.

**Surfacing:** (Required) Install one of the following:

- 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping asphalt at an application rate of 60 lb./sq. or in Black Knight Flood Coat or Black Knight LV Flood Coat at 70 lb/sq.
- GarlaBrite applied at 1 gal. per 150 ft<sup>2</sup>.

**Maximum Design Pressure:** -60 psf. (See General Limitation #7.)



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## STEEL DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117, calculations shall be signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant.
2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.

## GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. **Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**

**END OF THIS ACCEPTANCE**



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